Biostatistics Program

Speaker: Shanna H. Swan
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Topic: **"Reporting and Selection Bias in Case-Control Studies of Congenital Malformations"**

Place: 2^{nd} Floor Conference Room
Regional Headquarters, Kaiser Permanente
1950 Franklin
Oakland
(See Directions Below)

Date: Thursday, February 27, 1992
Time: 3:30 p.m., Refreshments
4:00 p.m. Talk

Directions: From the 19^{th} street BART station take 19^{th} street towards 20^{th} (the lake) for 1 blocks. The building is between 20^{th} and 21^{st} streets. Signs and/or people will be posted to guide you to the room.
(Behind the Cafeteria)

Abstract

Reproductive studies of congenital malformations frequently rely on exposures reported by study subjects. Differential error in exposure reporting by cases and controls, which has alternately been referred to as "recall bias" and "reporting bias" may result in a biased effect measure. Some authors have attempted to avoid reporting bias by comparing exposures between two malformed groups, rather than between cases and non-malformed controls. This approach, however, may introduce its own bias, which we call ***selection bias***. Both reporting bias and selection bias are shown to be algebraically equivalent to bias arising from exposure misclassification. The magnitudes of these biases are compared for a range of plausible parametric values. The case-control design is sensitive to both differential reporting and selection bias, and the choice of study design involves balancing these two sources of bias.

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